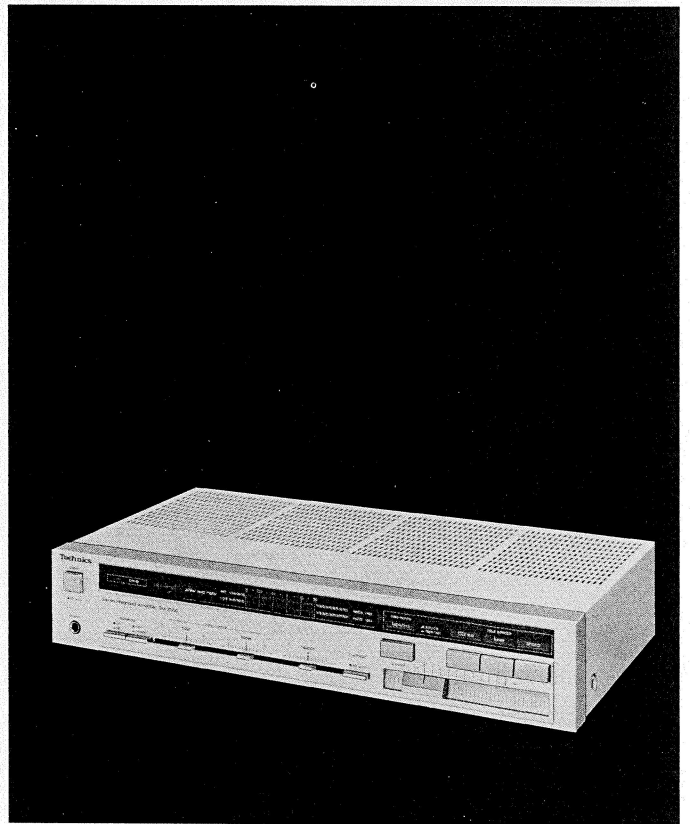


Technics

Stereo Integrated Amplifier

SU-Z550

OPERATING INSTRUCTIONS



Cabinet colour differs according to area.

Before operating this unit, please read these instructions completely.

Dear Stereo Fan

We want to thank you for selecting this product and to welcome you to the growing family of satisfied Technics product owners around the world. We feel certain you will get maximum enjoyment

from this new addition to your home. Please read these operating instructions carefully, and be sure to keep them handy for convenient reference.

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For Safe Use of This Unit

■ Use a standard electrical AC wall outlet

1. Use from an AC power source of high voltage, such as for air conditioners, is very dangerous.

Be extremely careful not to make a connection to the electrical outlet for a large air conditioner or central-heating unit which uses high voltage, because there is the possibility of fire.

2. A DC power source cannot be used.

Be sure to check the power source carefully, especially on a ship or other place where DC is used.

■ Connection and removal of the power cord plug

1. Wet hands are dangerous.

A dangerous electric shock may result if the plug is touched by wet hands.

2. Don't pull the power cord.

Always grasp the plug; never pull the cord itself.

■ Never attempt to repair or reconstruct this unit

A serious electric shock might occur if this unit is repaired, disassembled or reconstructed by unauthorized persons, or if the internal parts are accidentally touched.

■ For families with children

Never permit children to put anything, especially metal, inside this unit. A serious electric shock or malfunction could occur if articles such as coins, needles, screwdrivers, etc. are inserted through the ventilation holes, etc. of this unit.

■ Turn off after use

If the unit is left for a long time with the power on, this will not only shorten its useful operation life, but may also cause other unexpected trouble.

■ If water is spilled on the unit

Be extremely careful if water is spilled on the unit, because a fire or serious electric shock might occur. Immediately disconnect the power cord plug, and consult with your dealer.

■ Place the unit where it will be well ventilated, and away from direct sunlight

Place this unit at least 10 cm (4") away from wall surfaces, etc., and away from direct sunlight. Be careful that curtains and similar materials do not obstruct the ventilation holes.

■ Keep the unit away from heaters, etc.

Heat can damage the external surfaces as well as internal circuits and components.

■ Avoid spray-type insecticides

Insecticides might cause cracks or "cloudiness" in the cabinet and plastic parts of this unit. The gas used in such sprays might, moreover, be ignited suddenly.

■ Never use alcohol or paint thinner

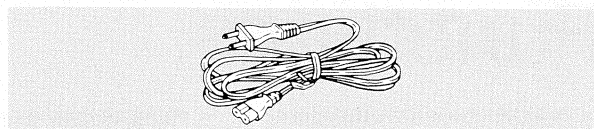
These and similar chemicals should never be used, because they may damage the finish.

■ If trouble occurs

If, during operation, the sound is interrupted or indicators no longer illuminate, or if abnormal odor or smoke is detected, immediately disconnect the power cord plug, and contact your dealer or an Authorized Service Center.

Accessory

- AC power supply cord 1



Before Using This Unit

Be sure to disconnect the mains cord before adjusting the voltage selector.

Use a minus (–) screwdriver to set the voltage selector (on the rear panel) to the voltage setting for the area in which the unit will be used.

(If the power supply in your area is 117 V or 120 V, set to the “127 V” position.)

Note that this unit will be seriously damaged if this setting is not made correctly. (There is no voltage selector for some countries; the correct voltage is already set.)

Connections

“TUNER” terminals

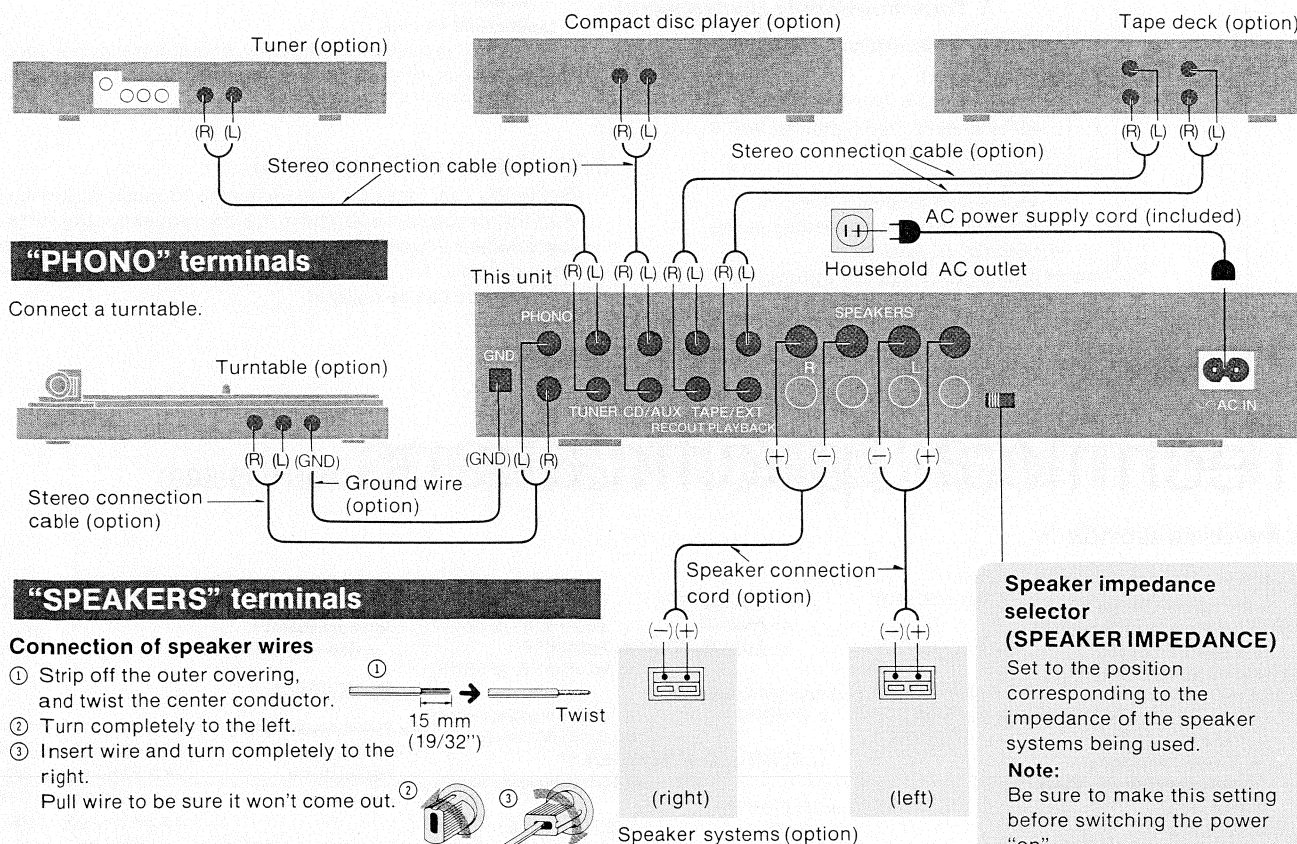
Connect a tuner.

“CD/AUX” terminals

Use these terminals to connect a compact disc player (digital audio disc), or tape deck (playback only).

“TAPE/EXT” terminals

Connect an audio tape deck, graphic equalizer, etc.



Front Panel Controls and Their Functions

Power switch/indicator (power)

At the "on" position, the indicator will illuminate to indicate that the power is on.

Be sure to reduce the volume level to the minimum ("0") position before turning on the power.

Peak-power meters (power level meter)

These meters indicate the peak-power value of the output level to the speaker systems.

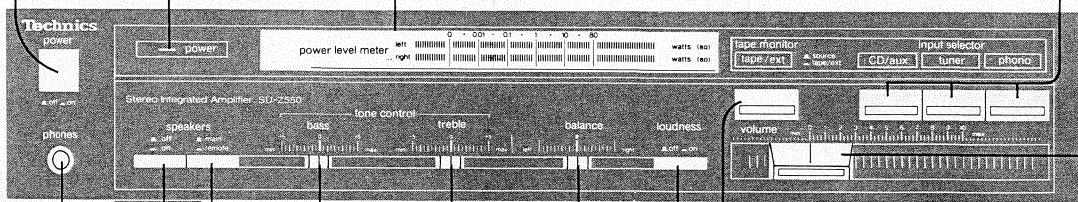
If speaker systems with an impedance of 8 ohms are connected, the actual value can be read directly. If, however, the impedance is 16 ohms, the actual output value is 1/2 of the indicated value.

$$\text{Actual output} = \frac{\text{indicated value} \times 8 \Omega}{\text{speaker impedance} (\Omega)}$$

Input selectors (input selector)

These selectors are used to select the sound source to be heard, such as a disc, radio broadcast, etc.

Volume control (volume)



Balance control (balance)

Tone controls (bass/treble)

Speaker selectors (speakers)

main (■→■):

Sound can be heard from the speaker systems connected to the "MAIN" terminals.

remote (■→■):

Sound can be heard from the speaker systems connected to the "REMOTE" terminals.

This selector is used to turn the speaker systems on and off.

Tape-monitor selector (tape monitor)

source (■→■):

Press to this position when one of the input selectors is pressed.

tape/ext (■→■):

Set to this position to play back or monitor the sound from a tape deck, or to use a graphic equalizer, etc., connected to the "TAPE/EXT" terminals.

Loudness switch (loudness)

Set to the "on" position when listening to music at low volume. Auditory perception of sound in the low frequency range falls off at low volume, but when the switch is in this position, this deficiency is compensated for, so that the full impact of the musical performance can be enjoyed.

Headphones jack (phones)

Technical Specifications (DIN 45 500)

■ AMPLIFIER SECTION

40 Hz~20 kHz continuous power output	
both channels driven	2 × 50W (8Ω)
1 kHz continuous power output	
both channels driven	2 × 60W (8Ω)
Total harmonic distortion	
rated power at 1 kHz	0.009% (8Ω)
rated power at 40 Hz~20 kHz	0.05% (8Ω)
half power at 1 kHz	0.007% (8Ω)
Intermodulation distortion	
rated power at 60 Hz: 7 kHz=4:1, SMPTE, 8Ω	0.03%
Power bandwidth	
both channels driven, -3 dB	10 Hz~25 kHz (8Ω, 0.03%)
Damping factor	40 (8Ω)
Input sensitivity and impedance	
PHONO	2.5 mV/47kΩ
TUNER, CD/AUX, TAPE/EXT	150 mV/22kΩ
PHONO maximum input voltage (1 kHz, RMS)	
	150 mV

S/N	
rated power (8Ω)	
PHONO	73 dB (IHF, A: 72 dB)
TUNER, CD/AUX, TAPE/EXT	90 dB (IHF, A: 97 dB)
Frequency response	
PHONO	RIAA standard curve
	±0.8 dB (30 Hz~15 kHz)
TUNER, CD/AUX, TAPE/EXT	10 Hz~90 kHz (-3 dB)
Tone controls	
bass	50 Hz, +10 dB~-10 dB
treble	20 kHz, +10 dB~-10 dB
Loudness control (volume at -30 dB)	
	50 Hz, +9 dB
Output voltage	
TAPE/EXT (REC OUT)	150 mV
Channel balance, CD/AUX 250 Hz~6,300 Hz	
	±1.0 dB
Channel separation, CD/AUX 1 kHz	
	55 dB

Headphones output level and impedance	
	490 mV/330Ω
Load impedance	
MAIN or REMOTE	4Ω~16Ω

■ GENERAL

Power consumption	290W
Power supply	
AC 50 Hz/60 Hz, 220V	
For Australia	
AC 50 Hz/60 Hz, 240 V	
For others	
AC 50 Hz/60 Hz,	
110 V/127 V/220 V/240 V	
Dimensions (W×H×D)	
430 × 86 × 240 mm	
(16-15/16" × 3-3/8" × 9-7/16")	
Weight	
4.8 kg	
(10.6 lb.)	

Note:

- Total harmonic distortion is measured by the digital spectrum analyzer (H.P. 3045 system).

Operation

To listen to the desired program source

1 Power: "on" ()

Be sure to reduce the volume level to the minimum ("0") position before turning on the power.

2 Select speaker systems to be used.

3 Set to "source" ()

To listen to tape set to the "tape/ext" position.

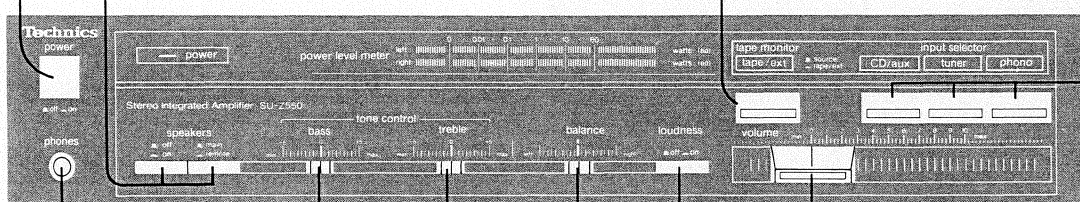
5 Follow the instructions accompanying your equipment for set-up and operation of the selected sound source.

4 Select the sound source.

CD/aux: Press this button to listen to equipment connected to the "CD/AUX" terminals.

tuner: Press this button to listen to radio broadcasts.

phono: Press this button to listen to phono discs.



(→) Adjust the volume level.

Set to the "on" position when listening to music at a low volume level for compensation of the bass range.

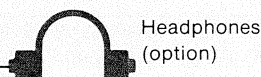
Adjust left/right volume balance.

While listening to an AM broadcast or a monaural FM broadcast, balance the sound so that it seems to be heard from the center, between the speakers.

Adjust tone quality as desired.

Low-range sound is adjusted with bass control ("bass"), and high-range sound with treble control ("treble").

When listening through headphones



If sound from speakers is not wanted, set the speaker selectors to the "off" position.

Note:

Set volume control to minimum ("0") position before connecting headphones.

Tape recording

Follow above steps ① through ⑤.

By using the controls on the tape deck, adjust the recording level. Then begin recording.

Tape-to-tape recording

By using two tape decks, tape-to-tape recording can be performed.

1. Connection

Connect a playback tape deck to the "CD/AUX" terminal on the rear panel of this unit. (Refer to page 3.)

2. Operation

According to step ④ above, select "CD/aux", and playback, using a playback tape deck according to step ⑤.

Begin recording.

Protection Circuitry

The protection circuitry may have operated if either of the following conditions is noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.

If this occurs, follow the procedure outlined below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again.

Note:

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

Troubleshooting Guide

Before requesting service for this unit, check this table to determine if the problem can be solved as described below. If the problem still persists after making these checks, or if there are symptoms of malfunction not described in this table, it is recom-

mended that you consult the store where this unit was purchased or your local Service Center (see list included) for further information and assistance.

Problem	Probable cause(s)	Suggested remedy
No sound is heard when the power is turned on.	The power supply fuse has failed.	• Request the store where this unit was purchased, or a Service Center, to replace the fuse.
	Connections are incomplete or incorrect to the speaker systems, the tuner, etc.	• Check to be sure that all connection wires are correctly connected.
	The setting of the input selectors has not been completely or correctly made.	• Check to be sure that the selectors are set to the correct position.
When listening to stereo sound, the sound of the various musical instruments is not heard from its correct position.	The positive (+) and negative (–) connections of the speaker connection wires are reversed.	• Reconnect the speaker connection wires so that the positive and negative connections are correct.
When listening to stereo sound, the left and right sounds are reversed.	The left and right connections of the speaker connection wires are reversed.	• Check the speaker connection wires and connect them correctly if necessary.
	The left and right connections of the connection wires connected to other equipment are reversed.	• Check the connection wires to other equipment and connect them correctly if necessary.
A low-pitched noise ("hum" or "buzz") is heard.	The power cord or a fluorescent light, etc., is near the connection wires.	• Try separating this unit from the electric appliance as far as possible.
	The connection of the ground wire is incorrect or incomplete.	• Reverse the connection of the power cord plug. • Check to be sure that the grounding connection is correct.
Sound is not heard from the speaker system on one side.	The speaker connection wires are disconnected.	• Check and correct the connections of the speaker connection wires.
	The balance control is not set to the center position.	• Set the mark on the balance control to the center position.
Sound stops during a performance, or no sound is heard when the power is turned on.	The protection circuitry has functioned because the positive and negative speaker connection wires are "shorted" or speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.	• Switch off the power, and, after determining and correcting the cause, turn on the power once again.

Maintenance of External Surfaces

To clean, use a soft dry cloth.

If the surfaces are extremely dirty, use a soft cloth, dipped into a soap and water solution or a weak detergent solution.

Wring the cloth well before wiping the unit.

Wipe once again with a soft dry cloth.

Never use alcohol, paint thinner, benzene, nor a chemically treated cloth to clean this unit.

Such chemicals may damage the finish of your unit.

(ENGLISH)

HOW TO USE THE AC OUTLETS, AND CAUTION NOTES

Use the AC outlets as described below, and carefully read the caution notes.

■ How to use

"UNSWITCHED" outlet:

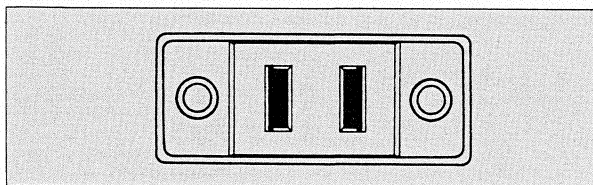
Power is always available, regardless of power switch setting. Equipment with a rating equal to or less than the figure shown at the AC outlet can be connected.

Use this outlet for connection of a record player or tape deck.

"SWITCHED" outlet:

Power is controlled by power switch of this unit. Equipment with a rating equal to or less than the figure shown at the AC outlet can be connected.

If the power of the tuner is turned on and the power cord from the tuner is connected to this AC outlet, the power of the tuner can be turned on and off by using the power switch of this unit.



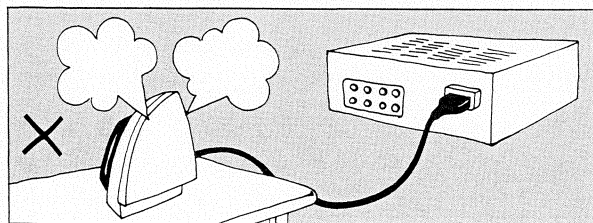
■ Caution notes

1. Any equipment connected here should have specified power consumption or less.

These outlets are exclusively for the connection of other audio equipment, such as a tape deck. Be sure the power consumption does not exceed the wattage specified near the AC outlets.

2. Never connect other electrical appliances, such as an iron or toaster.

If appliances with a large power consumption are connected, an unexpected accident might occur as a result of overheating.



(ESPAÑOL)

COMO USAR LAS TOMAS DE CA, y NOTAS DE PRECAUCION

Usar las tomas de CA como se describe más abajo, y leer cuidadosamente las precauciones.

■ Cómo usar

Toma "UNSWITCHED":

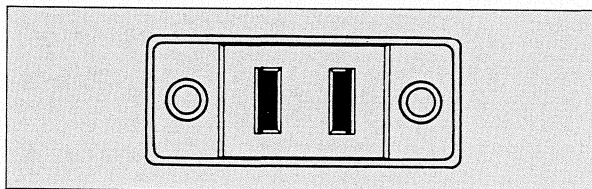
La corriente siempre queda disponible, cualquiera que fuere la posición del interruptor de corriente. Equipos con amperajes de servicio menores o iguales a la cifra que aparece en la toma de corriente de C.A. pueden ser conectados.

Usar esta toma para conectar un tocadiscos o un grabador de cinta.

Toma "SWITCHED":

La corriente se controla por el interruptor de corriente del presente aparato. Equipos con amperajes de servicio menores o iguales a la cifra que aparece en la toma de corriente de C.A. pueden ser conectados.

Si se enciende la corriente del sintonizador y el cable de corriente de éste se conecta a esta toma de CA, se podrá entonces encender y apagar la corriente del sintonizador usando el interruptor de corriente de esta unidad.



■ Precauciones

1. Todo equipo a conectarse a estas tomas habrá de tener el consumo de corriente especificado o uno inferior al mismo.

Estas tomas de corriente son exclusivamente para conectar otros equipos de audio, como sería un reproductor de cintas o "tape deck".

Habrà que cerciorarse de que el consumo de corriente de cada uno de los equipos no exceda el voltaje especificado junto a los tomacorrientes.

2. Jamás conectar otros aparatos eléctricos tales como planchas o tostadores.

De conectar aparatos que requieren mucho consumo de corriente, podrían producirse accidentes inesperados como consecuencia de un calentamiento excesivo.

